Appl. No. 10/623,804
Amendment dated May 29, 2007
Reply to Office Action of March 26, 2007

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of the claims in the

application:

1. (Previously Presented) A method of sending ultrawide bandwidth signals from first

and second wireless networks across an available wireless bandwidth, comprising:

dividing the available wireless bandwidth into a high band and a low band;

sending a first signal in the first wireless network across the high band; and

sending a second signal in the second wireless network across the low band,

wherein the first signal and the second signal each comprise a plurality of modulated

pulses, and

wherein each of the modulated pulses comprises a plurality of consecutive iterations

of an oscillating signal.

2. (Original) A method of sending ultrawide bandwidth signals from first and second

wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the

available bandwidth is between 1.5 GHz and 10 GHz.

3. (Original) A method of sending ultrawide bandwidth signals from first and second

wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the

low band has a center frequency between 3.6 GHz and 4.6 GHz.

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4. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the low band has a center frequency of about 4.104 GHz.

5. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the low band is between 1 GHz and 2 GHz.

6. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the low band is about 1.368 GHz.

7. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the high band has a center frequency between 7.7 GHz and 8.7 GHz.

8. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the high band has a center frequency of about 8.208 GHz.

9. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the high band is between 2 GHz and 4 GHz.

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10. (Original) A method of sending ultrawide bandwidth signals from first and

second wireless networks across an available wireless bandwidth, as recited in claim 1,

wherein the 3 dB bandwidth of the high band is about 2.736 GHz.

11. (Previously Presented) A method of sending ultrawide bandwidth signals from

first and second wireless networks across an available wireless bandwidth, as recited in claim

1, wherein the first and second wireless networks are ultrawide bandwidth networks.

12. (Previously Presented) A method of sending ultrawide bandwidth signals from

first and second wireless networks across an available wireless bandwidth, as recited in claim

1, wherein each of the modulated pulses comprises three consecutive iterations of a

sinusoidal signal.

13. (Previously Presented) A method of sending ultrawide bandwidth signals from

first and second wireless networks across an available wireless bandwidth, comprising:

dividing the available wireless bandwidth into a high band and a low band, the high

band spanning a first contiguous frequency range, and the low band spanning a second

contiguous frequency range separate from the first contiguous frequency range;

transmitting all signals in the first wireless network across the high band; and

transmitting all signals within the second wireless network across the low band,

wherein the first signals and the second signals each comprise a plurality of

modulated pulses, and

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wherein each of the modulated pulses comprises a plurality of consecutive iterations of an oscillating signal.

14. (Previously Presented) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13, wherein the first and second contiguous frequency ranges are separated by an interference band.

15. (Previously Presented) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13, wherein the interference band is located between 5.15 GHz to 5.825 GHz.

16. (Previously Presented) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13,

wherein the low band has a center frequency between 3.6 GHz and 4.6 GHz, and

wherein the high band has a center frequency between 7.7 GHz and 8.7 GHz.

17. (Previously Presented) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13, wherein the first and second wireless networks are ultrawide bandwidth networks.

18. (Canceled)

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19. (Currently Amended) A method of sending ultrawide bandwidth signals from

first and second wireless networks across an available wireless bandwidth, as recited in claim

~~18~~ 13, wherein each of the modulated pulses comprises three consecutive iterations of a

sinusoidal signal.

20. (Currently Amended) A method of sending ultrawide bandwidth signals from

first and second wireless networks across an available wireless bandwidth, comprising:

dividing the available wireless bandwidth into a high band and a low band, the high

band spanning a first contiguous frequency range, and the low band spanning a second

contiguous frequency range separate from the first contiguous frequency range;

transmitting first signals in the first wireless network across the high band; and

transmitting second signals within the second wireless network across the low band,

wherein all signal traffic in the first wireless network takes place in the high band; and

wherein all signal traffic in the second wireless network takes place in the low band

wherein the first signals and the second signals each comprise a plurality of

modulated pulses, and

wherein each of the modulated pulses comprises a plurality of consecutive iterations

of an oscillating signal.

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